NABM – STANDARD BALL VALVE ACTUATOR

10 Nm| MODULATING CONTROL



The appearance of the product may differ from the illustration. Technical specifications are subject to change.

NABM...10 (S1) HN SERIES

NABM series standard valve actuators are especially designed and produced for applications in the HVAC systems. Our wide range of standard valve actuators has been developed to operate and position ball valves of different sizes.

- Torque: 10 Nm
- Valve size DN40(1½“) / DN50(2“)
- Power supply $24V_{AC/DC}$
- Control Modulating 0(2)...10 V_{DC} & 0(4)...20 mA
- Shaft dimension – 9 mm square (fixed)
- Direction of rotation selectable by switch
- Actuator with 1 m connection cable
- Optional 1 adjustable SPDT auxiliary switch

MODEL SELECTION TABLE

Model/type	Torque	Power supply	Running time	Auxiliary switch
NABM 1.1-10 HN	10 Nm	24 $V_{AC/DC}$ ± 10%	100...150 s	-
NABM 1.1-10S1 HN	10 Nm	24 $V_{AC/DC}$ ± 10%	100...150 s	1 x SPDT (adjustable)

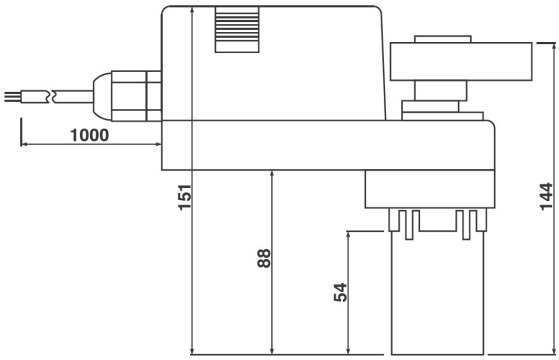
NENUTEC®

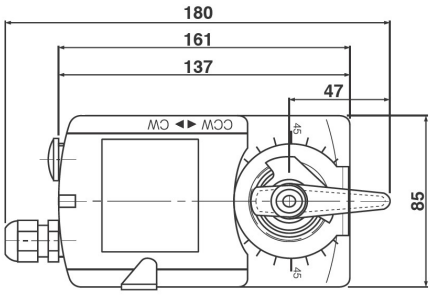
INNOVATIVE MEMBER OF SWISSTEC

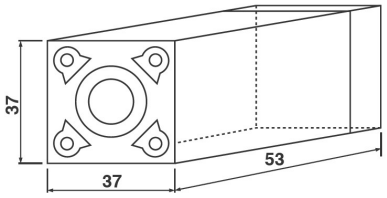
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ACTUATOR DIMENSIONS [mm]







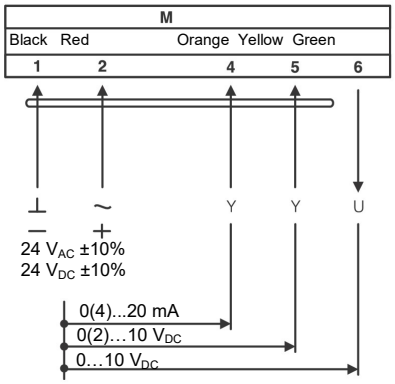
TECHNICAL SPECIFICATION

	NABM 1-10 (S1) HN
Torque	10 Nm
Valve size	DN40(1½“) / DN50(2“)
Shaft dimensions	☐ 9.0 mm (fixed)
Power supply	24 $V_{AC/DC}$ ± 10%
Frequency	50...60Hz
Control signal (Input)	0(2)... 10 V_{DC}/ 0(4)...20 mA
Position signal (output)	0…10 V_{DC}
Power consumption	
• In operation	6.0 W
• End position	4.0 W
Rated power	6.5 VA
Electrical Connection	1 m Cable
Auxiliary switch rating	3 (1.5) A / 250 V_{AC}
Protection class	Class III ⏚
Angle of rotation	90° (95° mechanical limitation)
Weight	<1.1 kg
Durability	60,000 rotations
Sound level	40 dB
IP protection class	IP54
Working temperature range	-20°C...50°C as per IEC 721-3-3
Storage temperature	-30°C...+60°C / IEC 721-3-2
Ambient humidity	5...95% rH (non condensing) / EN
Maintenance	Maintenance free
Principle of operation	Type 1 (acc. to EN 60730-1)
Electromagnetic compatibility	CE & ISO 9000 to EN / EEC

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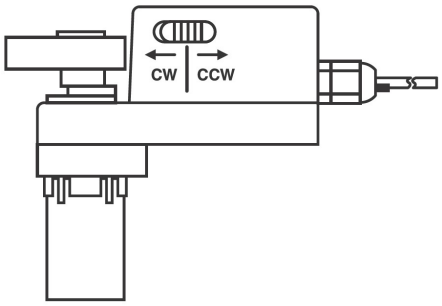
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WIRING DIAGRAM NABM...10 (S1) HN POWER SUPPLY 24 $V_{AC/DC}$

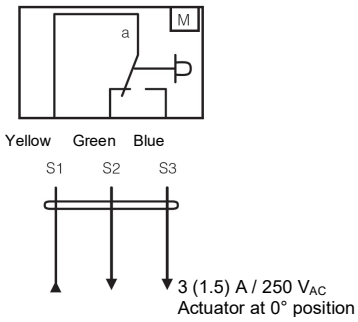


DIRECTION OF ROTATION NABM...10 (S1) HN

Ustawienie fabryczne: prawo (CW). Direction of rotation can be changed by toggling between CW/CCW switch on the actuator housing.

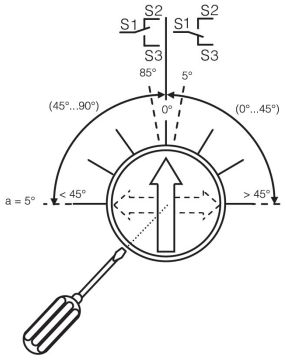


WIRING DIAGRAM NABM...10 (S1) HN AUXILIARY SWITCH

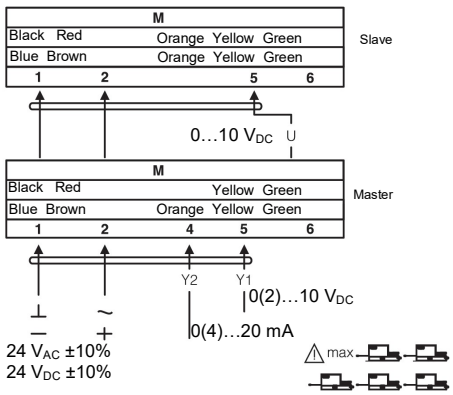


AUXILIARY SWITCH NABM...10 (S1) HN

Switch **a** factory-set at 5º. The auxiliary switch can be adjusted in the range 0°...90°.



WIRING DIAGRAM NABM...10 (S1) HN PARALLEL CONNECTION

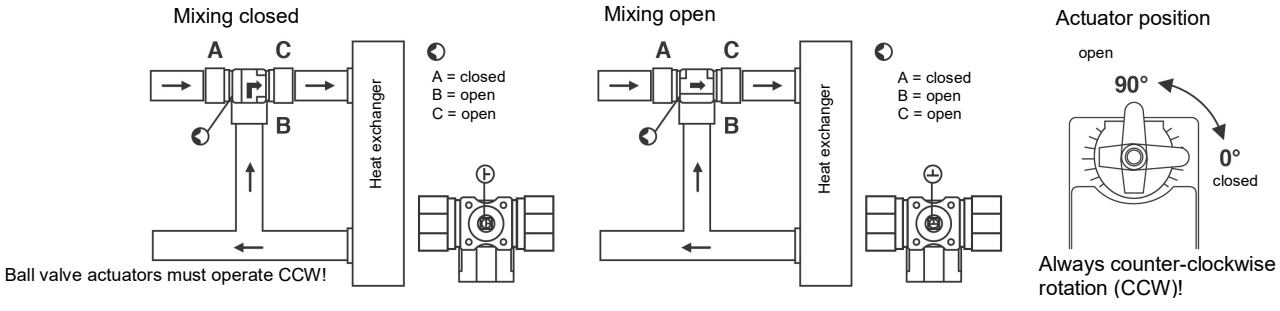


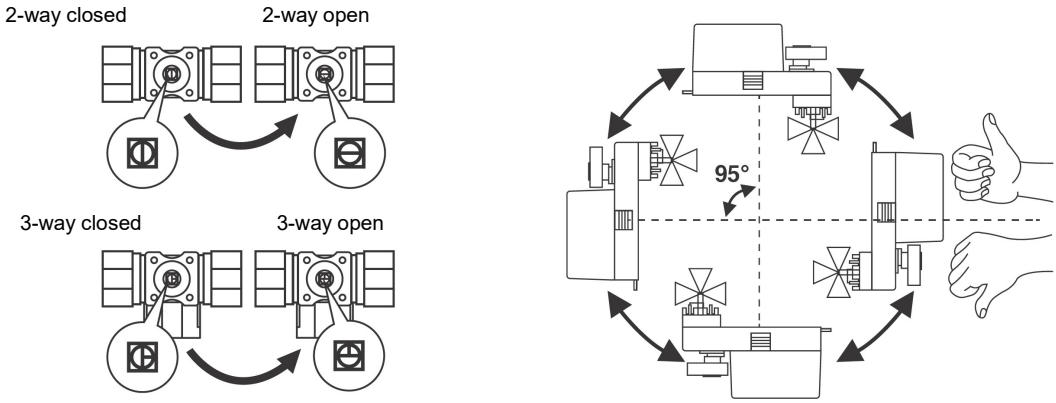
REMARK

During parallel operation, the output signal (terminal 6, 0...10 V_{DC} of the master actuator must be connected to terminal 5 of the next slave actuator.

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IMPORTANT REMARKS

This actuator includes electrical and electronic components and may not be disposed as household waste. Please consider the local valid legislation.

24 $V_{AC/DC}$: Connect via safety isolating transformer.

230 V_{AC}: To isolate from the main power supply, the system must incorporate a device which disconnects the phase conductor (with at least a 3mm contact gap.)

Consult NENUTEC representatives for specific requirements and material selections for your intended application. The entire content of this technical datasheet is protected by copyright. All rights are reserved ©.

The performance specifications are nominal and conform to acceptable industry standards. Nenutec shall not be liable for damages resulting from misapplication or misuse of its products.

CUSTOMISED VERSION

NENUTEC offers you actuators in customised versions, e.g. with your own brand name, with colour-coordinated applications and with your particular demand on request.

For further information please contact us or our local representative.

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